SONY

MICROCASSETTE™-CORDER

M-740/750V

OPERATING INSTRUCTIONS

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Sony Corporation Printed in Japan © 1987

FEATURES

- Compact size and easy operation
- VOR (voice operated recording) system (M-750V only) economizes on tapes, batteries and your time.
- You can start recording directly from the playback mode. This function is convenient to correct a previously recorded portion.

What is VOR (voice operated recording) system?
With this system, recording starts only when sound is picked up and stops automtically when sound is no longer detected.

PRECAUTIONS

On power sources

- **Operate the unit only on 3 V DC.**
  For battery operation, use **two size AA (R6) batteries.**
  For AC operation, use the AC power adaptor recommended for this unit. Do not use any other type.
- When the internal batteries are not to be used, remove them to avoid damage caused by battery leakage and corrosion.

On location

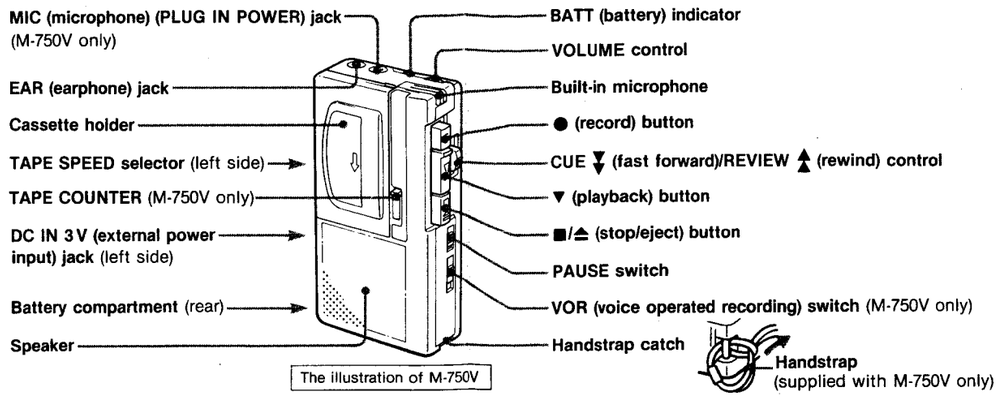
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Since a strong magnet is used for the speaker, **keep personal credit cards using magnetic coding or spring-wound watches away from the unit** to prevent possible damage from the magnet.

On operation

- If the unit has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.
- Should any solid object or liquid fall into the unit, remove the batteries or disconnect the AC power adaptor, and have the unit checked by qualified personnel before operating it any further.
- **Use only the (MICROCASSETTE)™ with this unit.**
- Two tape speeds can be selected for recording with the TAPE SPEED selector: 2.4 cm or 1.2 cm. **Match the playback speed to the recording speed.**
  Select the 2.4 cm tape speed for recording, if you play back the recorded tape with another unit. Otherwise, the sound quality may be changed.

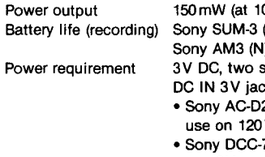
If you have any question or problem concerning your unit that is not covered in this manual, please consult the nearest Sony dealer.

PARTS IDENTIFICATION



The illustration of M-750V

MAINTENANCE



Cleaning the head
Clean the tape head after every 10 hours of use to enjoy optimum sound. Moisten a cotton swab or a soft cloth with alcohol and wipe the parts shown in the illustration.

Cleaning the casing
Clean the casing with a soft cloth slightly moistened with water or a mild detergent solution. Do not use alcohol, benzine or thinner as they may mar the finish.

TROUBLESHOOTING GUIDE

Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Trouble	Cause and/or remedy
Cassette cannot be inserted.	• Cassette is inserted improperly. See "CASSETTE INSERTION". • The ▼ button is depressed.
The ● button cannot be depressed.	• No cassette in the cassete holder. • The cassette inserted has had the tabs removed. See "CASSETTE INSERTION".
The ● or ▼ button cannot be locked.	• The tape is completely rewound towards the arrow direction on the cassette holder. • After the automatic shut-off, the PAUSE switch is on. Slide the PAUSE switch in the opposite direction of the arrow.
The ● or ▼ button is locked, but playback/recording does not start.	• Slide the PAUSE switch in the opposite direction of the arrow. • Incorrect polarity of batteries. • Weak batteries.
No sound from the speaker.	• The earphone is plugged in. • The VOLUME control is turned down completely.
Weak or distorted sound.	• Weak batteries.
Sound drop-outs, loss of high frequencies, or excessive noise.	• Dirty heads. See "MAINTENANCE".
Tape speed is excessively fast or slow while playing back.	• Improper setting of the TAPE SPEED selector.
Recording cannot be made or is unsatisfactory.	• Weak batteries. • Dirty record/playback head. See "MAINTENANCE". • Improper setting of the VOR switch (M-750V only). Set it to "H" or "OFF".
Unsatisfactory erasing.	• Dirty erase head. See "MAINTENANCE".

SPECIFICATIONS

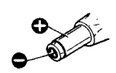
Tape	(MICROCASSETTE)™ (normal position type)
Recording system	2-track 1-channel monaural
Speaker	Approx. 4 cm (1⅝ inches) dia.
Tape speed	2.4 cm/s (15/16 ips), 1.2 cm/s (15/32 ips)
Frequency response	250–4,000 Hz (at 2.4 cm position)
Input (M-750V only)	Microphone jack (minijack) (PLUG IN POWER) sensitivity 0.3 mV for 3 kilohm or lower impedance microphone
Output	Earphone jack (minijack) for 8–300 ohm earphone
Power output	150 mW (at 10% harmonic distortion)
Battery life (recording)	Sony SUM-3 (NS): Approx. 6 hours Sony AM3 (N): Approx. 18 hours
Power requirement	3 V DC, two size AA (R6) batteries DC IN 3 V jack accepts: • Sony AC-D2M AC power adaptor (optional) for use on 120 V AC, 60 Hz • Sony DCC-70 car battery cord (optional) for use on 12 V car battery
Dimensions	Approx. 66.5×124.2×29.7 mm (w/h/d) (2⅝×5×1³⁄₁₆ inches) incl. projecting parts and controls
Weight	Approx. 190 g (6.8 oz) incl. batteries
Accessory supplied (M-750V only)	Handstrap (1)

Design and specifications subject to change without notice.

OPTIONAL ACCESSORIES

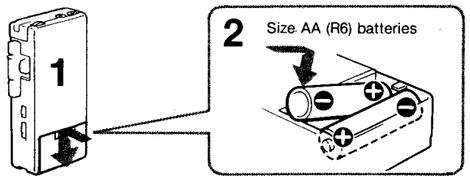
Microcassette MC-30, MC-60, 3MC-60
Earphone ME-81, ME-L82
Connecting cord RK-64A (miniplug to miniplug with attenuator)
Electret condenser microphone (for M-750V) ECM-144, etc.
AC power adaptor AC-D2M
Car battery cord DCC-70

Note: Use only the recommended AC power adaptor or car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.



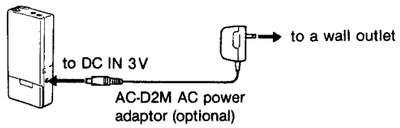
Polarity of the Sony plug

BATTERY INSTALLATION

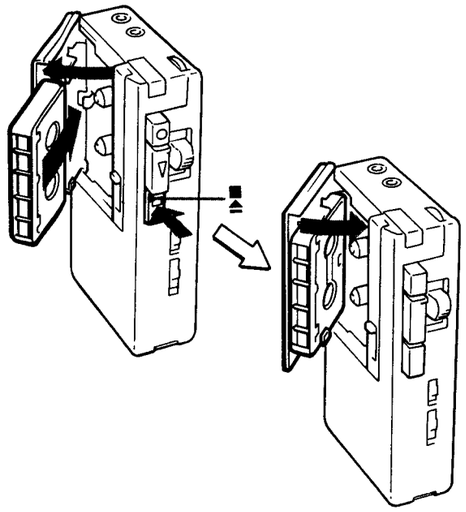


When to replace the batteries
When the batteries become weak, the BATT indicator will glow faintly and sound will become distorted or unstable. In this case, replace both batteries with new ones.
For battery life, see "SPECIFICATIONS".

HOUSE CURRENT OPERATION

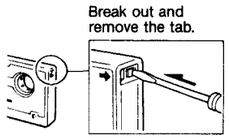


CASSETTE INSERTION

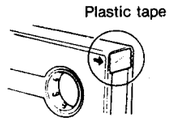


NOTES ON MICROCASSETTE

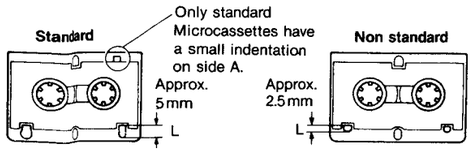
To protect cassettes from accidental erasure



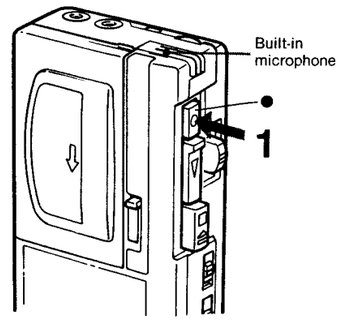
To reuse a cassette
Cover the slot with plastic tape.



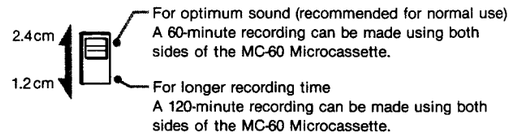
This unit uses only standard Microcassettes. Non standard cassettes cannot be used because their "L" dimension (see illustration) is different.



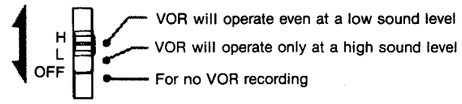
RECORDING WITH THE BUILT-IN MICROPHONE



To select the desired tape speed


2.4cm
1.2cm
For optimum sound (recommended for normal use)
A 60-minute recording can be made using both sides of the MC-60 Microcassette.
For longer recording time
A 120-minute recording can be made using both sides of the MC-60 Microcassette.

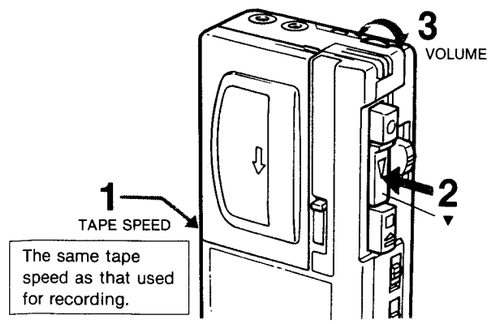
To set the VOR switch (M-750V only)



Quick review function
Simply press the CUE▼/▲REVIEW control toward ▲ (REVIEW) while recording.
When the control is released, playback begins for review of the recorded material.

To listen to the recorded sound
You can listen to the sound being recorded through the earphone (optional). (You cannot adjust the monitor volume.)

PLAYBACK



To rapidly advance the tape, set CUE ▼/▲ REVIEW to ▼ CUE.
To rewind the tape, set CUE ▼/▲ REVIEW to ▲ REVIEW.

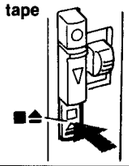
When the earphone is plugged in
The speaker is automatically disconnected.

To skip over or repeat a certain portion during playback
Keep the CUE ▼/▲ REVIEW control pressed up or down with the ▼ button depressed. When the control is released, playback begins.

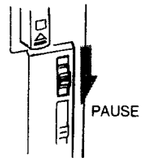
To start recording directly from playback mode
During playback, simply depresse the ● button and the recorder will immediately change to the recording mode.

TAPE STOP

To stop the tape



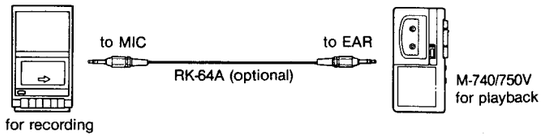
To pause



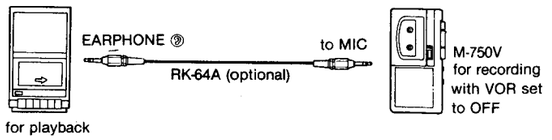
At the end of the tape
In record or playback mode, tape stops at the end of the tape and the locked button will be released automatically (Automatic shut-off mechanism.)
After advancing or rewinding the tape until its end, **be sure to press the ■/⏏ button to release the CUE ▼/▲ REVIEW control.**

RECORDING/PLAYBACK WITH CONNECTED EQUIPMENT

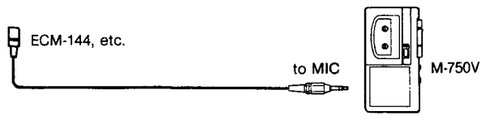
Dubbing onto another tape recorder



Recording from another tape recorder (M-750V only)



Recording with an external microphone (M-750V only)



- The built-in microphone is automatically deactivated.
- When connecting an electret condenser microphone with "Plug-in power" system, the power is supplied from the MIC (PLUG IN POWER) jack of the M-750V, and you do not have to insert a battery in the microphone.